What is the profile of the top pig farmers with the best technical performances and lowest antimicrobial usage?



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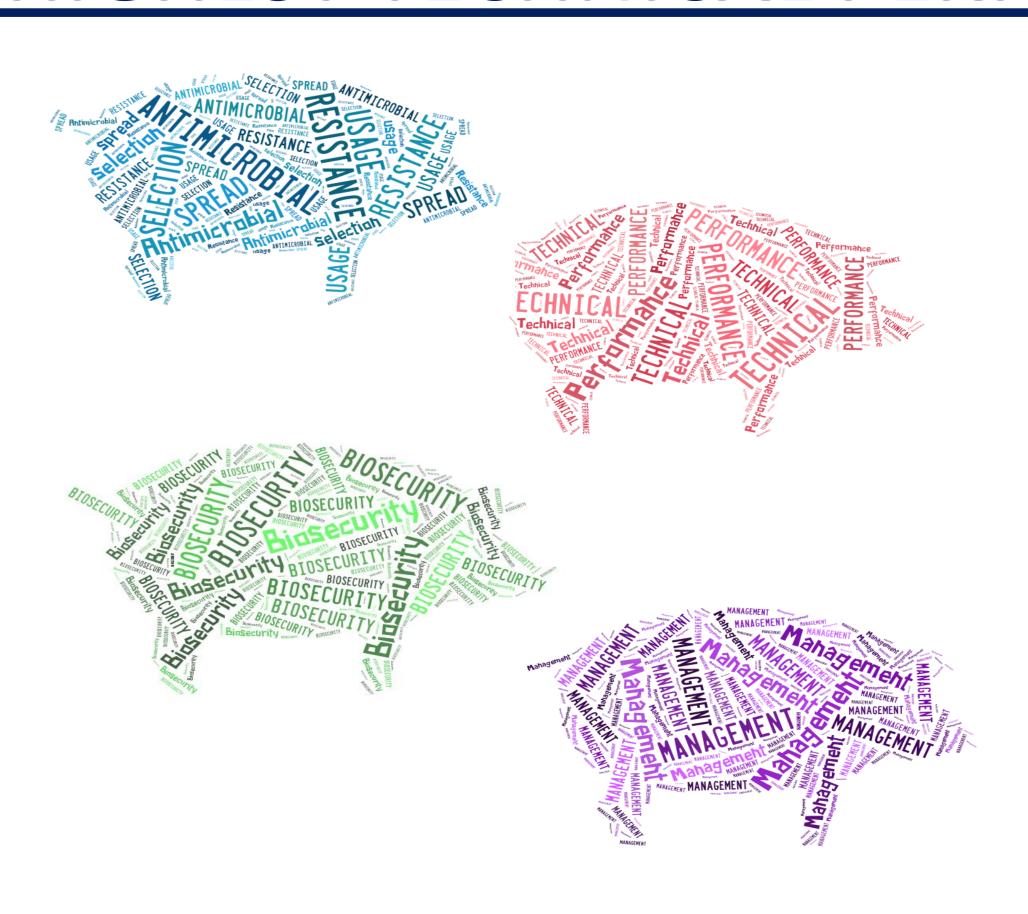
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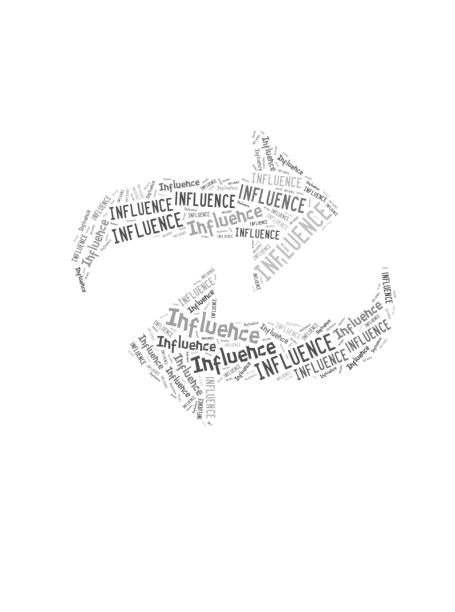
ANTIMICROBIAL USAGE IN FOOD PRODUCING ANIMALS -> RISK OF ANTIMICROBIAL RESISTANCE WHICH ARE MAIN DRIVERS FOR ANTIMICROBIAL USAGE?

WHICH FARMER PROFILE IS RELATED TO THE LOWEST ANTIMICROBIAL USAGE WITH HIGHEST TECHNICAL PERFORMANCE?











MATERIALS & METHODS

Study design

Retrospective study 231 farrow-to-finish >100 sows, >500 fatteners Herd visit

Countries

Belgium France Germany Sweden

Production and usage data

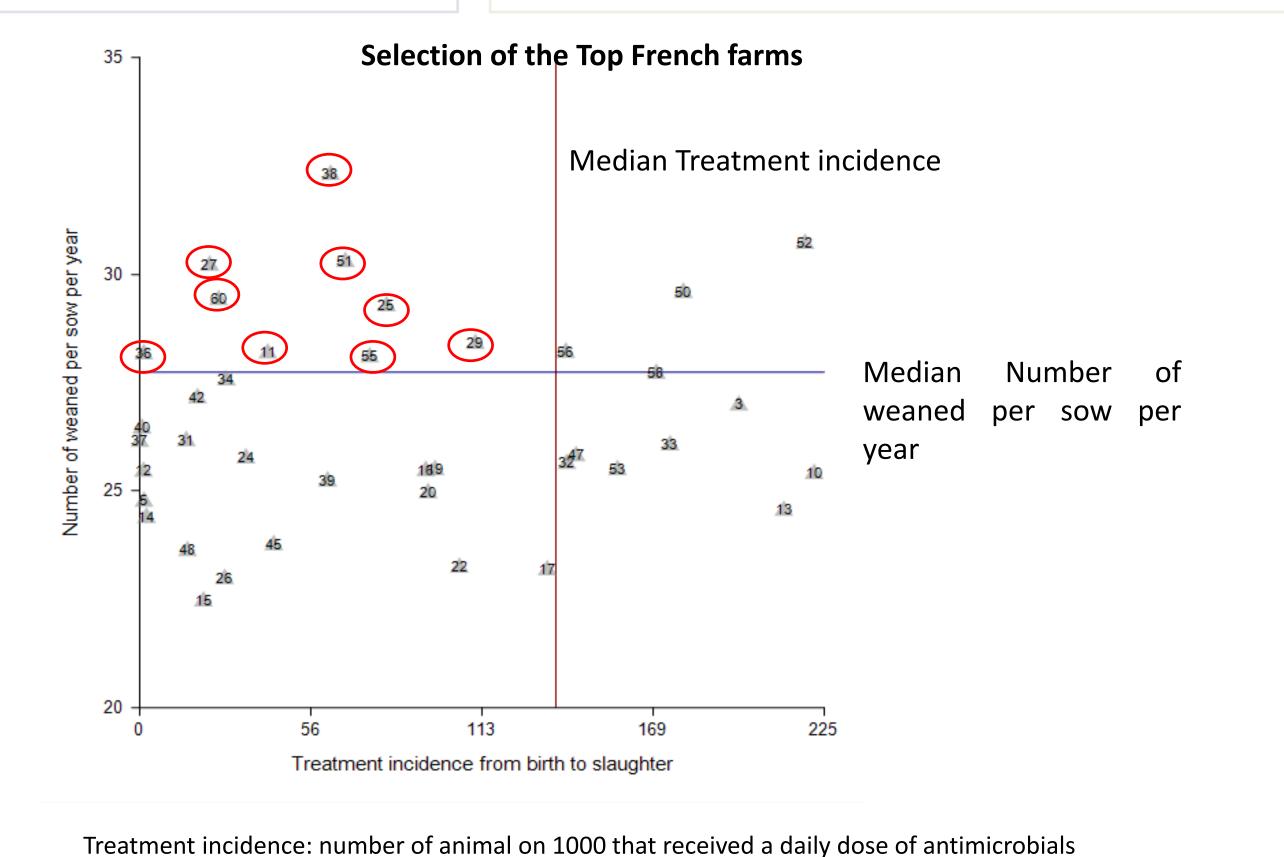
Antimicrobial usage data (ABcheck.Ugent) Biosecurity status data (Biocheck.Ugent) Technical performance data

Drivers and perception data

Paper questionnaire Attitudes, perceptions Self-evaluation

Selecting Top farms per country:

Top herds ranking in the upper left quadrant, representing the highest performances in number of weaned per sow per year and the lowest antimicrobial usage, were used for further analysis.



Statistics:

Group of Top herds compared to the group "others" by using the median and a Wilcoxon rank test.

Comparison gender: Chi-square test.

RESULTS

Red circles: Herd IDs selected as being Top herds

Farmers with lowest antimicrobials usage and best technical results were...

Scoring higher on total biosecurity status (p= 0.03)

Mainly external biosecurity (p= 0.03)

Perceiving antimicrobials to be cost effective (p=0.06) and fast acting (p=0.04) More appreciation, more careful handling? Further analysis necessary!

Most frequently of the gender female (p= 0.03)

Follow up & Stay in touch

MINAPIG consortium will investigate alternatives to antimicrobials in depth and implement them in field studies. If you would like to receive updates on MINAPIG research, please visit www.minapig.eu

